

NID File ..... ✓  
 Location Map Pinned ..... ✓  
 Card Indexed ..... ✓

Checked by Chief .....  
 Approval Letter .....  
 Disapproval Letter .....

# COMPLETION DATA:

Date Well Completed .....

Location Inspected .....

... WW..... TA.....

Bond released

... OS..... PA.....

State or Fee Land .....

## LOGS FILED

Driller's Log.....

Electric Logs (No.) .....

..... I..... Dual I Lat..... GR-N..... Micro.....

PHC Sonic GR..... Lat..... MI-L..... Sonic.....

CBLog..... CCLog..... Others.....

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL & GAS

5. Lease Designation and Serial No.

ML28640 ✓

6. If Indian, Allottee or Tribe Name

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. Type of Well

Oil  
Well ☐Gas  
Well ☐

Other Wildcat

Single  
Zone ☐Multiple  
Zone ☐

2. Name of Operator

AMOCO PRODUCTION COMPANY

3. Address of Operator

501 AIRPORT DRIVE, FARMINGTON, NEW MEXICO 87401

4. Location of Well (Report location clearly and in accordance with any State requirements.\*)

At surface

Approximate center of SE/4 SW/4 Section 23, T-8-N, R-8-W

At proposed prod. zone

7. Unit Agreement Name

8. Farm or Lease Name

State of Utah "D" ✓

9. Well No.

1

10. Field and Pool, or Wildcat

Wildcat ✓

11. Sec., T., R., M., or Blk.  
and Survey or Area

SE SW Section 23 ✓

T-8-N R-8-W ✓

12. County or Parrish 13. State

Box Elder

Utah ✓

14. Distance in miles and direction from nearest town or post office\*

Salt Lake City

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)

660 ✓

16. No. of acres in lease

2560

17. No. of acres assigned to this well

Wildcat ✓

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft.

NONE

19. Proposed depth

3500'

20. Rotary or cable tools

Rotary ✓

21. Elevations (Show whether DF, RT, GR, etc.)

Lake Elevation 4199

22. Approx. date work will start\*

May, 1978 ✓

23.

## PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
	20"	94#	100'	Drive Pipe ✓
17-1/2	13-3/8"	48#	500'	Circulate to Surface
8-3/4	7"	26#	3500'	To be determined upon logging. Cement to cover pay and aquifers.

Well to be drilled in the Great Salt Lake at a location where the water depth is approximately 20' of water. The drilling contractor will be designated in advance of drilling operations, but is unknown at present. Current plans are to employ one rotary rig to complete the exploration program on the lake. This well is over four miles from shore and is over 1 mile from any evaporation pits structures, buildings, platforms, producing well, State or Federal waterfowl areas. The well will be drilled in compliance with the State of Utah operating rules and regulations governing drilling procedures in the Great Salt Lake adopted July 18, 1973. An oil spill contingency plan will be submitted for approval prior to drilling.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed

L.O. Jewett 505-325-8541

Title

Area Superintendent

Date

12/2/77

(This space for Federal or State office use)

Permit No.

Approval Date

Approved by

Title

Date

Conditions of approval, if any:

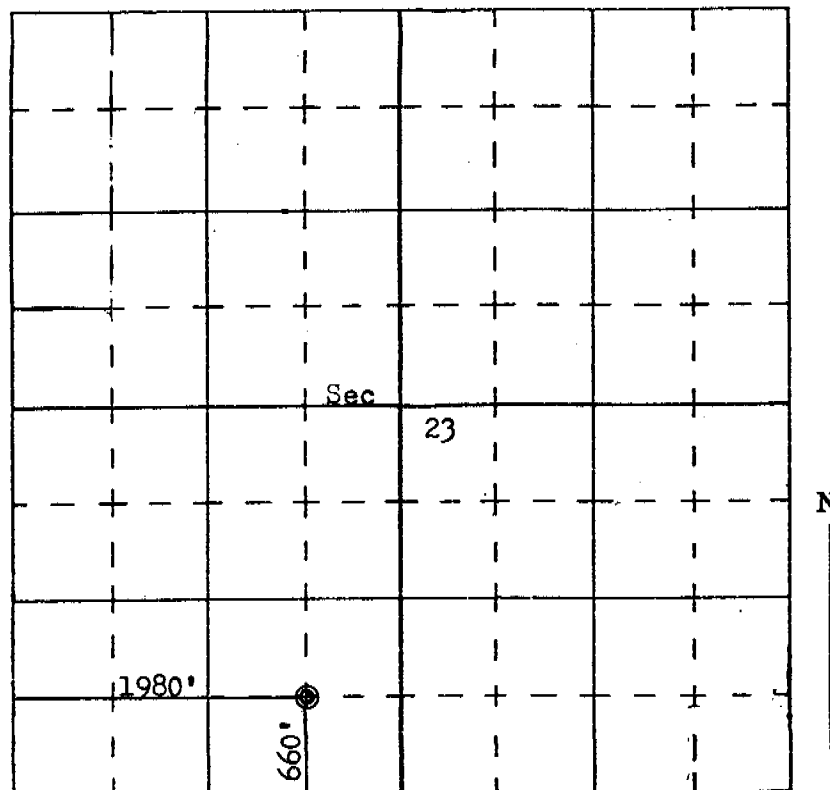
COMPANY Amoco Production Company

LEASE State of Utah "D" WELL NO. 1

SEC. 23, T. 8N, R. 8W U.S.M.

Box Elder County, Utah  
LOCATION 660'FSL 1980'FWL

ELEVATION \_\_\_\_\_



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-  
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

*Fred B. Kerr Jr.*  
Fred B. Kerr Jr.

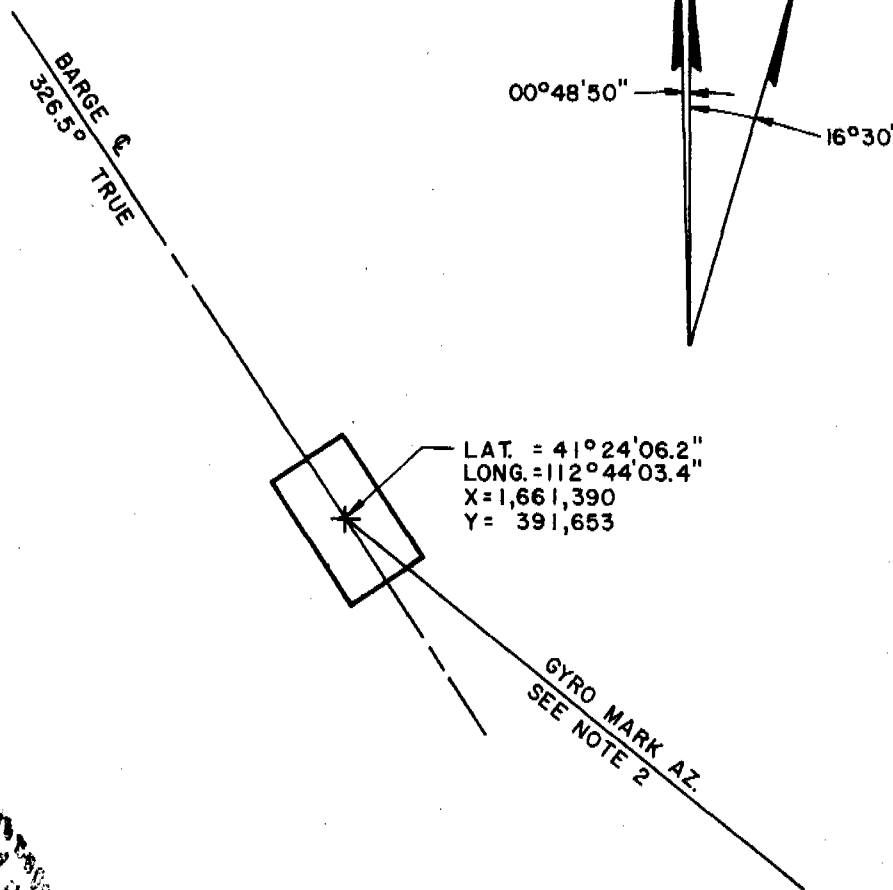
SEAL:

Registered Land Surveyor.

#3950

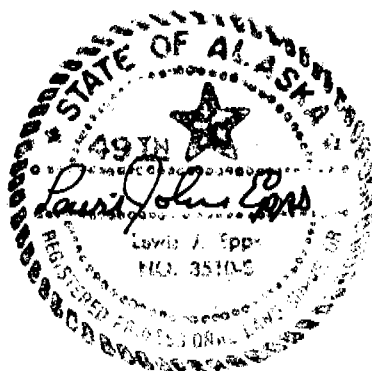
SURVEYED November 16, 1977

FARMINGTON, N. M.



LAT. = 41°24'06.2"  
 LONG. = 112°44'03.4"  
 X = 1,661,390  
 Y = 391,653

GYRO MARK AZ.  
 SEE NOTE 2



29 Nov. 1978

Reference: State of Utah Laws regulating the practices of Professional Engineers, Land Surveyors and Engineers in Training section 58-22-21.

NOTES:

1. Coordinates are Utah State Plane, North Zone.
2. Gyro mark "A" is the western most light on the north face of the light house tower at the Little Valley Harbor. Az. from barge 128°40' true. Gyro mark "B" is the highest and northern most hill in a cluster of three hills directly above the camp at Little Valley Harbor as viewed from barge. Az. from barge 128°30' true.
3. Coordinates are for derrick vertical C.

Date of Survey - Nov. 24, 1978

No Scale

AMOCO No. 1 STATE OF UTAH "D"

DRILL BARGE LOCATION

For

AMOCO PRODUCTION CO.

Farmington,

New Mexico

Surveyed by

F. M. LINDSEY & ASSOC.

LAND & HYDROGRAPHIC SURVEYORS  
 2502 West Northern Lights Boulevard Box 4-081  
 Anchorage Alaska



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

\*\* FILE NOTATIONS \*\*

Date: Dec 6, 1977

Operator: Amoco Oil Prod. Co.

Well No: State "D" #1

Location: Sec. 23 T. 8N R. 1W County: Box Elder

File Prepared: ☒

Entered on N.I.D.: ☒

Card Indexed: ☒

Completion Sheet: ☒

API NUMBER: 43-003-30003

CHECKED BY:

Administrative Assistant [Signature]

Remarks:

Petroleum Engineer [Signature]

Remarks:

Director [Signature]

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: ☐

Survey Plat Required: ☐

Order No. ISO-2 ☒

Surface Casing Change ☐  
to \_\_\_\_\_

Rule C-3(c), Topographic exception/company owns or controls acreage  
within a 660' radius of proposed site ☐

O.K. Rule C-3 ☒

O.K. In \_\_\_\_\_ Unit ☐

Other:

☒

Letter Written/Approved

SCOTT M. MATHESON  
Governor



OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

I. DANIEL STEWART  
Chairman

CHARLES R. HENDERSON  
JOHN L. BELL  
THADIS W. BOX  
C. RAY JUVELIN

CLEON B. FEIGHT  
Director

December 9, 1977

AMOCO PRODUCTION COMPANY  
501 Airport Drive  
Farmington, New Mexico 87401

RE: State of Utah "D" #1, Sec. 23, T. 8 N, R. 8 W, Box Elder County  
State of Utah "E" #1, Sec. 19, T. 3 N, R. 4 W, Davis County  
State of Utah "F" #1, Sec. 15, T. 3 N, R. 5 W, Tooele County  
State of Utah "G" #1, Sec. 29, T. 3 N, R. 5 W, Tooele County  
State of Utah "H" #1, Sec. 11, T. 3 N, R. 6 W, Tooele County  
State of Utah "I" #1, Sec. 23, T. 7 N, R. 7 W, Box Elder County

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to wells is hereby granted in accordance with the Order issued in Cause No. 150-2, dated November 20, 1974; and, the "Operating Rules and Regulations Governing Drilling Procedures in the Great Salt Lake", adopted July 18, 1973, by the Board of Oil, Gas, and Mining.

However, said approval shall be contingent upon the following:

- 1) The blowout prevention equipment being tested by an independent source after initial installation on all of the above wells;
- 2) Notification as to the name of the drilling contractor and the number and type of rig to be used prior to commencement of spudding operations;
- 3) The filing of an "Oil Spill Emergency Contingency Plan"
- 4) A drilling and plugging bond being filed with the Division of State Lands prior to commencement of operations.

Should you determine that it will be necessary to plug and abandon these wells, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer  
HOME: 582-7247  
OFFICE: 533-5771

OR

BRIAN W. BUCK - Engineering Geologist  
HOME: 359-0214  
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Finally, it is requested that this Division be notified at least 48 hours prior to spudding.

The API numbers assigned to these wells are:

"D" #1: 43-003-30003	"E" #1: 43-011-30002
"F" #1: 43-045-30004	"G" #1: 43-045-30005
"H" #1: 43-045-30006	"I" #1: 43-003-30002

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

  
CLEON B. FEIGHT  
Director

/sw

cc: Division of State Lands

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER Wildcat		5. LEASE DESIGNATION AND SERIAL NO. M L 28640
2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 501 Airport Drive Farmington New Mexico 87401		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Center of NW/4 SW/4 Section 23, T-8-N, R-8-W		8. FARM OR LEASE NAME State of Utah "D"
14. PERMIT NO.		9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, OR, etc.) Lake Elevation 4199'		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW SW Section 23, T-8-N R-8-W
		12. COUNTY OR PARISH Box Elder
		13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

### NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input checked="" type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

### SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

## 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

This is to advise of location, total depth and casing program change for Amoco's proposed Wildcat well, the State of Utah "D" No. 1. The proposed well total depth has been changed from 3500' to 8000'. The proposed well location has been changed from C SE SW Section 23, T-8-N, R-8-W to C NW SW Section 23, T-8-N, R-8-W. Water depth at the new location is approximately 20' feet. A revised plat is attached. Our revised casing program is as follows:

	Hole Size	Csg Size	Wt/Ft	Setting Depth	Cmt. Vol
Conductor:	Driven	20"	94#	500'	Drive pipe
Surface:	12-1/4"	9-5/8"	36#	3000'	Circ. to surf.
Production:	8-1/2"	7"	23-26#	8000'	To be determined from logs. Cmt. to cover pay and aquifers.

The revised casing program was verbally approved per telephone conversation between to Feight on September 26, 1978.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE: 10-2-78

BY: C.B. Feight

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Area Superintendant DATE September 28, 1978

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

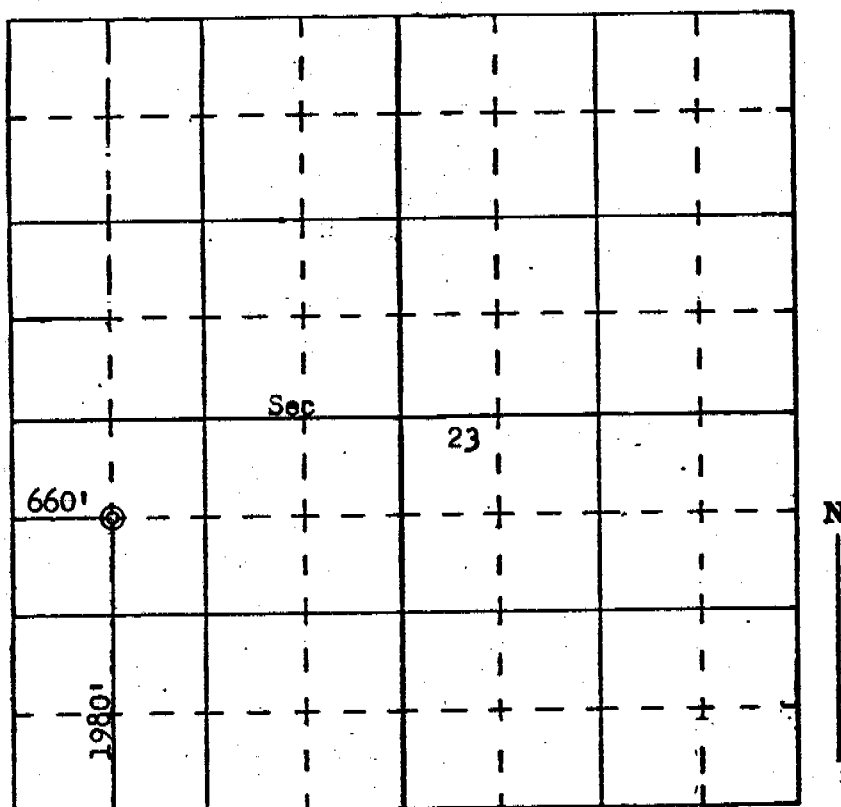
COMPANY AMOCO PRODUCTION COMPANY

LEASE STATE OF UTAH "D" WELL NO. 1

SEC. 23, T. 8N, R. 8W  
BOX ELDER COUNTY, UTAH

LOCATION 1980' E SL 660' E NL

ELEVATION 4199 (Lake level)



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-  
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

*Fred B. Kerr Jr.*  
Fred B. Kerr Jr.

SEAL:

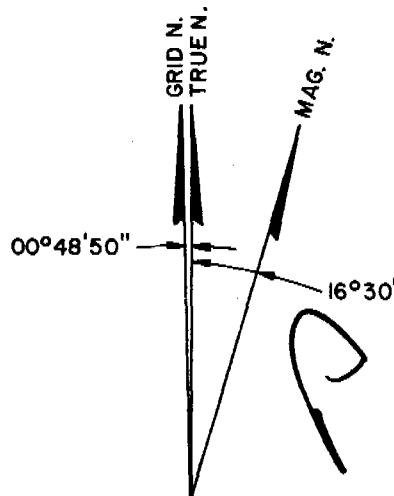
Registered Land Surveyor

#3950

SURVEYED September 29, 1978

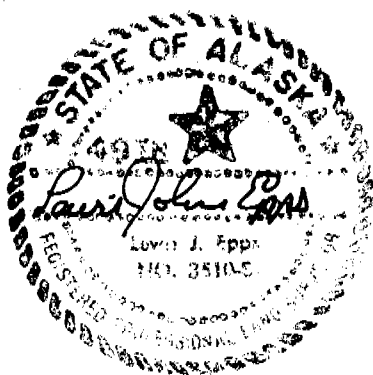
FARMINGTON, N. M.

BARGE  $\epsilon$   
326.5° TRUE



LAT. =  $41^{\circ}24'06.2''$   
LONG. =  $112^{\circ}44'03.4''$   
X = 1,661,390  
Y = 391,653

GYRO MARK AZ  
SEE NOTE 2



29 Nov. 1978



Reference: State of Utah Laws regulating the practices of Professional Engineers, Land Surveyors and Engineers in Training section 58-22-21.

NOTES:

1. Coordinates are Utah State Plane, North Zone.
2. Gyro mark "A" is the western most light on the north face of the light house tower at the Little Valley Harbor. Az. from barge  $128^{\circ}40'$  true. Gyro mark "B" is the highest and northern most hill in a cluster of three hills directly above the camp at Little Valley Harbor as viewed from barge. Az. from barge  $128^{\circ}30'$  true.
3. Coordinates are for derrick vertical  $\epsilon$ .

Date of Survey - Nov. 24, 1978

No Scale

AMOCO No. 1 STATE OF UTAH "D"

DRILL BARGE LOCATION

For

AMOCO PRODUCTION CO.

Farmington,

New Mexico

Surveyed by

F. M. LINDSEY & ASSOC.

LAND & HYDROGRAPHIC SURVEYORS  
2502 West Northern Lights Boulevard Box 4-081  
Anchorage Alaska

CONFIDENTIAL

February 7, 1979

MEMO TO FILE

*43-003-30003*  
Re: AMOCO PRODUCTION COMPANY  
Well No. State "D" #1  
Sec. 23, T. 8N, R. 8W  
Box Elder County, Utah

A call was received from Amoco Production Company relative to the drilling of this second well on the Great Salt Lake. It had been drilled to a total depth of 8,513' when the hole for all practical purposes, was lost. An attempt to reach this depth resulted in a new hole being made from 6,240' on. Amoco does not want to pursue a redrill program, and as such, requests permission to plug this well back to 2,700' in order to test some heavy oil shows.

The plugging program consists of a 200' cement plug from 6,200'-6,000' and a balancing plug from 4,400'-4,600'. The third plug will be set from 2,700-2,900'. The completion attempt will be from 2,700'-2,700'.

5

Verbal permission has been granted

PATRICK L. DRISCOLL  
CONSULTANT

PLD/lw

Confidential

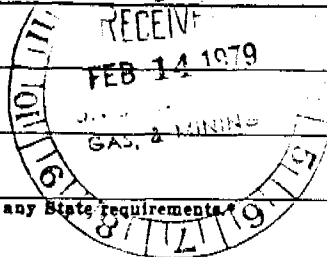
STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.
M L 28640
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
State of Utah "D"
9. WELL NO.
1
10. FIELD AND POOL, OR WILDCAT
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 23, T8N, R8W
12. COUNTY OR PARISH
Box Elder
13. STATE
Utah

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Wildcat
2. NAME OF OPERATOR
Amoco Production Company
3. ADDRESS OF OPERATOR
P. O. Box 17675 Salt Lake City
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface



C-NW/4, SW/4, Section 23, 660' FWL 1980' FEL

14. PERMIT NO.
43-003-30003
15. ELEVATIONS (Show whether DF, RT, OR, etc.)
4199' Lake Elevation 4223' RKB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)		Plug back	<input checked="" type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Operations commenced 11/24/78, drove 20" Conductor pipe to 362' spud with Rotary Rig 11/26/78, drilled 12 1/4" hole to 2837 and set 9 5/8" 36# K-55 Surface casing @ 2819'. Cemented w/1400 sx Lite and 800 sx C1 "G" (no returns to surface.) Commenced drilling 8 3/4" hole to 6985' and lost bit drilling jars, 20 drill collars, 2 jts. drill pipe and 27' sub. Unable to retrieve, top of junk @ 6219 set 500 sx cement plug @ 6205', kicked off and drilled to 8500.

Propose to plug back to approximately 2700' and to continue testing above 2600' Plugs back to be completed as described below:

Set 200 sx cement plug 6000'-6200'  
Set 60 sx cement plug 4400'-4500'  
Set 120 sx cement plug 2700'-2900'

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING  
DATE: 2-20-79

Verbal approval granted by Pat Driscoll of the State of Utah Department of Natural Resources, Division of Oil, Gas, and Mining to J. E. Stepinski on 2/4/79 @ 1:50 P. M.

NOTE: Please do not release the information provided above immediately as Amoco regards subject well as a Tight Hole. This information should only be released publicly in accordance with your provision to release confidential information only after 7 months elapses from date of well completion.

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Dist. Adm. Supervisor DATE 2-12-79

(This space for Federal or State office use)

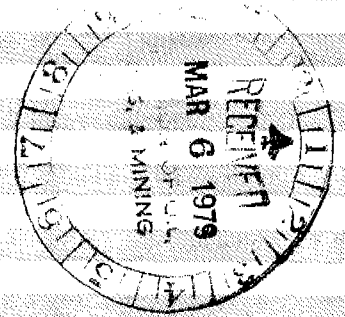
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:



\*\*\*\*\*

\*\*\*\*\*  
\* TDT ANALYSIS \*  
\*\*\*\*\*  
\* SCHLUMBERGER \*  
\*\*\*\*\*

COMPANY AMOCO PRODUCTION COMPANY  
WELL STATE OF UTAH "D" NO. 1  
FIELD WILDCAT  
COUNTY BOUTAH ELDER  
STATE UTAH  
DATE 2-14-79



TDT LOGGED 2-5-79

COMPUTED AT:- ROCKY MOUNTAIN COMPUTING CENTER

\*\*\*\*\*

THIS JOB IS LISTED FROM TOP TO BOTTOM  
THIS IS A 01 FOOT LISTING  
LISTING IS DISCRIMINATED FOR VSH>50%

DEPTH FEET	PERM. INDEX	EFFECTIVE POROSITY %	SHALE VOL. %	GAS INDEX	SW CH %	CUMULATIVE POR-FT	INTEGRATIONS HY-FT
540.0	64.32	0.27	130.19	0.00	0.69	182.45	3.35
541.0	566.36	0.35	192.26	0.00	0.70	182.15	3.25
542.0	170.73	0.27	137.51	0.00	0.74	181.80	3.15
1163.0	14.37	0.20	112.34	0.00	1.00	171.27	3.11
1164.0	39.29	0.26	159.21	0.00	0.99	171.05	3.11
1165.0	27.48	0.23	125.68	0.00	0.98	170.79	3.10
1237.0	17.39	0.20	89.09	0.00	0.78	167.82	3.10
1347.0	20.11	0.21	116.87	0.00	1.00	162.50	3.07
1349.0	27.54	0.21	110.35	0.00	0.99	162.11	3.07
1437.0	16.61	0.22	115.40	0.00	0.99	154.53	2.93
1438.0	22.11	0.23	135.30	0.00	0.98	154.31	2.93
1439.0	17.12	0.22	125.96	0.00	0.99	154.08	2.93
1440.0	10.71	0.20	112.50	0.00	1.00	153.86	2.92
1443.0	11.56	0.20	97.25	0.00	0.91	153.27	2.91
1444.0	13.23	0.21	102.17	0.00	0.92	153.07	2.90
1445.0	13.45	0.20	98.24	0.00	0.94	152.86	2.88
1501.0	21.00	0.22	107.01	0.00	0.81	150.43	2.86
1543.0	10.88	0.20	107.08	0.00	0.99	147.68	2.84
1601.0	35.54	0.22	109.18	0.00	0.94	145.20	2.83
1778.0	15.24	0.20	95.05	0.00	0.88	137.21	2.79
1780.0	18.28	0.21	103.28	0.00	0.91	136.82	2.75
1781.0	28.18	0.23	124.36	0.00	0.89	136.60	2.72
1871.0	61.15	0.22	103.26	0.00	0.78	130.79	2.61
1925.0	7.86	0.17	107.08	0.00	0.99	129.13	2.57
1926.0	12.39	0.20	125.40	0.00	0.94	128.95	2.56
2137.0	71.46	0.25	121.40	0.00	0.44	124.76	2.46
2138.0	32.08	0.19	105.53	10.00	0.33	124.52	2.31
2139.0	17.86	0.18	59.37	10.00	0.23	124.34	2.18
2140.0	9.82	0.15	64.48	10.00	0.28	124.17	2.05
2141.0	5.12	0.13	72.64	10.00	0.38	124.02	1.95
2142.0	14.66	0.19	72.75	2.84	0.38	123.88	1.86
2143.0	35.26	0.22	171.54	0.00	0.74	123.68	1.75
2144.0	84.14	0.22	521.43	0.00	1.00	123.46	1.72

DEPTH	PERM. INDEX	EFFECTIVE POROSITY	SHALE VOL.	GAS INDEX	SW CH	CUMULATIVE POR-FT	INTEGRATIONS HY-FT
FEET		%	%		%		
2145.0	2894.11	0.22	2591.38	0.00	1.00	123.24	1.72
2146.0	2520.31	0.21	2890.79	0.00	1.00	123.02	1.72
2147.0	3271.91	0.24	2544.66	0.00	1.00	122.80	1.72
2148.0	3493.61	0.25	2467.57	0.00	1.00	122.57	1.72
2149.0	3155.12	0.23	2597.95	0.00	1.00	122.32	1.72
2150.0	1126.51	0.14	4342.31	0.00	1.00	122.11	1.72
2151.0	2239.12	0.20	3042.29	0.00	1.00	121.95	1.72
2152.0	1146.59	0.14	4177.10	0.00	1.00	121.76	1.72
2153.0	680.72	0.11	5409.20	0.00	1.00	121.63	1.72
2154.0	923.20	0.13	4655.60	0.00	1.00	121.53	1.72
2155.0	1666.28	0.21	2254.43	0.00	1.00	121.39	1.72
2156.0	3365.32	0.27	2122.38	0.00	1.00	121.16	1.72
2157.0	3006.39	0.23	2736.54	0.00	1.00	120.91	1.72
2158.0	3066.28	0.23	2734.64	0.00	1.00	120.69	1.72
2159.0	3518.35	0.25	2530.84	0.00	1.00	120.46	1.72
2160.0	4359.20	0.28	2252.65	0.00	1.00	120.20	1.72
2161.0	3971.22	0.26	2355.98	0.00	1.00	119.92	1.72
2162.0	1054.63	0.14	4437.01	0.00	1.00	119.69	1.72
2163.0	459.46	0.09	6586.05	0.00	1.00	119.57	1.72
2164.0	1259.54	0.15	4025.01	0.00	1.00	119.48	1.72
2165.0	3312.16	0.24	2510.96	0.00	1.00	119.29	1.72
2166.0	2430.41	0.21	2942.10	0.00	1.00	119.05	1.72
2167.0	3676.64	0.25	2421.39	0.00	1.00	118.84	1.72
2168.0	3377.89	0.24	2538.52	0.00	1.00	118.58	1.72
2169.0	2317.17	0.20	3053.36	0.00	1.00	118.36	1.72
2170.0	1294.83	0.15	3928.05	0.00	1.00	118.18	1.72
2171.0	1708.88	0.17	3345.74	0.00	1.00	118.02	1.72
2172.0	126.66	0.11	2367.91	0.00	1.00	117.87	1.72
2173.0	1769.60	0.18	3316.42	0.00	1.00	117.75	1.72
2174.0	562.27	0.24	1138.17	0.00	1.00	117.55	1.72
2175.0	71.64	0.21	554.23	0.00	1.00	117.32	1.72
2176.0	1984.27	0.19	3360.40	0.00	1.00	117.10	1.72
2177.0	1239.42	0.15	4050.17	0.00	1.00	116.92	1.72
2178.0	2425.61	0.21	2806.96	0.00	1.00	116.77	1.72
2179.0	3675.03	0.25	2313.23	0.00	1.00	116.56	1.72
2180.0	3904.69	0.26	2307.30	0.00	1.00	116.31	1.72
2181.0	4693.14	0.29	2152.44	0.00	1.00	116.03	1.72
2182.0	1516.30	0.16	3739.34	0.00	1.00	115.77	1.72
2183.0	1027.85	0.13	4433.69	0.00	1.00	115.62	1.72
2184.0	2414.24	0.20	2868.00	0.00	1.00	115.48	1.72
2185.0	176.66	0.24	692.46	0.00	1.00	115.26	1.72
2186.0	3064.31	0.23	2699.40	0.00	1.00	115.02	1.72
2187.0	3167.54	0.23	2598.40	0.00	1.00	114.78	1.72
2188.0	2326.33	0.20	3007.93	0.00	1.00	114.56	1.72
2189.0	3427.56	0.24	2456.03	0.00	1.00	114.36	1.72
2190.0	3279.50	0.24	2491.87	0.00	1.00	114.11	1.72
2191.0	3094.31	0.23	2562.41	0.00	1.00	113.89	1.72
2192.0	4794.33	0.29	2065.47	0.00	0.98	113.65	1.72



DEPTH	PERM. INDEX	EFFECTIVE POROSITY %	SHALE VOL. %	GAS INDEX	SW CH %	CUMULATIVE POR-FT	INTEGRATIONS HY-FT
2193.0	3427.79	0.30	1668.85	0.00	0.97	113.36	1.71
2194.0	3399.67	0.24	2574.27	0.00	1.00	113.08	1.71
2195.0	2939.71	0.23	2769.14	0.00	1.00	112.85	1.71
2196.0	3282.85	0.24	2587.69	0.00	1.00	112.62	1.71
2197.0	2135.92	0.19	3173.88	0.00	1.00	112.39	1.71
2198.0	684.88	0.11	5544.63	0.00	1.00	112.22	1.71
2199.0	901.00	0.13	4760.50	0.00	1.00	112.11	1.71
2200.0	833.81	0.12	4955.58	0.00	1.00	111.98	1.71
2201.0	704.28	0.11	5414.04	0.00	1.00	111.86	1.71
2202.0	1201.20	0.14	4156.44	0.00	1.00	111.74	1.71
2203.0	1611.77	0.17	3588.64	0.00	1.00	111.59	1.71
2204.0	1857.46	0.18	3392.12	0.00	1.00	111.43	1.71
2205.0	2574.49	0.21	2877.45	0.00	1.00	111.24	1.71
2206.0	2572.39	0.21	2873.46	0.00	1.00	111.04	1.71
2207.0	3236.14	0.24	2558.24	0.00	1.00	110.83	1.71
2208.0	196.91	0.28	420.77	0.00	1.00	110.59	1.71
2209.0	4522.75	0.28	2231.28	0.00	1.00	110.30	1.71
2210.0	3409.46	0.24	2579.87	0.00	1.00	110.03	1.71
2211.0	45.99	0.20	428.84	0.00	1.00	109.79	1.71
2212.0	9.15	0.14	496.32	0.00	1.00	109.61	1.71
2213.0	1726.46	0.17	3441.30	0.00	1.00	109.47	1.71
2214.0	1432.62	0.16	3733.20	0.00	1.00	109.29	1.71
2215.0	932.13	0.13	4601.89	0.00	1.00	109.14	1.71
2216.0	497.36	0.09	6284.61	0.00	1.00	109.02	1.71
2217.0	981.46	0.13	4499.12	0.00	1.00	108.92	1.71
2218.0	1123.19	0.14	4256.67	0.00	1.00	108.79	1.71
2219.0	1801.81	0.18	3455.37	0.00	1.00	108.65	1.71
2220.0	3322.44	0.24	2644.96	0.00	1.00	108.46	1.71
2221.0	133.31	0.24	650.75	0.00	1.00	108.21	1.71
2222.0	100.76	0.24	452.72	0.00	1.00	107.97	1.71
2223.0	92.29	0.24	383.21	0.00	1.00	107.73	1.71
2224.0	78.23	0.22	496.56	0.00	1.00	107.49	1.71
2225.0	2735.39	0.22	2677.47	0.00	1.00	107.27	1.71
2226.0	188.63	0.18	1183.36	0.00	1.00	107.05	1.71
2227.0	1605.94	0.17	3572.88	0.00	1.00	106.87	1.71
2228.0	991.36	0.13	4644.93	0.00	1.00	106.71	1.71
2229.0	1103.42	0.14	4577.18	0.00	1.00	106.58	1.71
2230.0	1260.11	0.15	4480.17	0.00	1.00	106.44	1.71
2231.0	3035.25	0.23	2933.77	0.00	1.00	106.27	1.71
2232.0	1071.35	0.34	883.08	0.00	0.95	106.01	1.71
2233.0	289.81	0.31	407.92	0.00	1.00	105.67	1.69
2234.0	563.74	0.36	389.30	0.00	0.84	105.35	1.68
2235.0	718.10	0.38	303.57	0.00	0.71	104.98	1.60
2236.0	7321.81	0.36	1766.18	0.00	0.79	104.60	1.49
2237.0	5027.20	0.30	2125.59	0.00	0.99	104.26	1.44
2238.0	462.90	0.23	1113.13	0.00	1.00	103.97	1.44
2239.0	76.12	0.22	538.23	0.00	1.00	103.74	1.44
2240.0	2396.57	0.20	2939.87	0.00	1.00	103.52	1.44

DEPTH FEET	PERM. INDEX	EFFECTIVE POROSITY %	SHALE VOL. %	GAS INDEX	SW CH %	CUMULATIVE POR-FT	INTEGRATIONS HY-FT
2241.0	717.62	0.11	5238.22	0.00	1.00	103.33	1.44
2242.0	773.62	0.12	5054.21	0.00	1.00	103.21	1.44
2243.0	919.33	0.13	4617.75	0.00	1.00	103.09	1.44
2244.0	829.80	0.12	4890.94	0.00	1.00	102.96	1.44
2245.0	352.93	0.08	7667.02	0.00	1.00	102.85	1.44
2246.0	39.97	0.10	1759.91	0.00	1.00	102.77	1.44
2247.0	30.53	0.15	799.36	0.00	1.00	102.65	1.44
2248.0	2673.24	0.22	2959.19	0.00	1.00	102.48	1.44
2249.0	198.55	0.23	830.67	0.00	1.00	102.26	1.44
2250.0	223.77	0.29	420.00	0.00	1.00	102.02	1.44
2251.0	145.43	0.26	473.33	0.00	1.00	101.73	1.44
2252.0	75.83	0.23	397.02	0.00	1.00	101.49	1.44
2253.0	178.92	0.27	428.13	0.00	1.00	101.25	1.44
2254.0	1965.92	0.36	887.10	0.00	0.72	100.96	1.43
2255.0	5343.19	0.30	1901.72	0.00	0.90	100.61	1.33
2256.0	1394.17	0.16	3756.74	0.00	1.00	100.34	1.32
2257.0	66.11	0.09	2596.80	0.00	1.00	100.21	1.32
2258.0	29.60	0.12	1197.56	0.00	1.00	100.11	1.32
2259.0	12.82	0.11	972.23	0.00	1.00	99.99	1.32
2260.0	14.81	0.07	2122.29	0.00	1.00	99.90	1.32
2261.0	8.04	0.07	1936.47	0.00	1.00	99.82	1.32
2262.0	8.37	0.08	1359.26	0.00	1.00	99.75	1.32
2263.0	5.62	0.10	843.66	0.00	1.00	99.65	1.32
2264.0	12.28	0.07	2101.12	0.00	1.00	99.55	1.32
2265.0	19.63	0.05	4753.29	0.00	1.00	99.49	1.32
2266.0	266.90	0.07	8502.60	0.00	1.00	99.43	1.32
2267.0	519.47	0.10	6006.92	0.00	1.00	99.35	1.32
2268.0	91.17	0.09	3314.54	0.00	1.00	99.27	1.32
2269.0	13.28	0.09	1436.16	0.00	1.00	99.18	1.32
2270.0	10.59	0.13	709.91	0.00	1.00	99.09	1.32
2271.0	3.75	0.09	891.51	0.00	1.00	98.96	1.32
2272.0	6.37	0.08	1392.61	0.00	1.00	98.87	1.32
2273.0	741.94	0.11	5454.00	0.00	1.00	98.79	1.32
2274.0	1601.72	0.17	3781.96	0.00	1.00	98.66	1.32
2275.0	51.04	0.16	967.66	0.00	1.00	98.49	1.32
2276.0	46.60	0.14	1179.02	0.00	1.00	98.33	1.32
2277.0	4025.96	0.26	2553.09	0.00	1.00	98.18	1.32
2278.0	349.63	0.32	383.84	0.00	0.97	97.89	1.32
2279.0	148.34	0.27	353.67	0.00	1.00	97.59	1.31
2280.0	194.75	0.28	484.32	0.00	1.00	97.30	1.31
2281.0	140.16	0.24	760.67	0.00	1.00	97.04	1.31
2282.0	333.11	0.32	412.18	0.00	1.00	96.79	1.31
2283.0	370.76	0.33	359.44	0.00	0.97	96.47	1.31
2284.0	348.39	0.34	320.46	0.00	0.94	96.13	1.30
2285.0	426.41	0.34	403.58	0.00	0.96	95.80	1.29
2286.0	630.98	0.37	388.85	0.00	0.84	95.45	1.26
2287.0	8910.15	0.39	1717.46	0.00	0.76	95.07	1.18
2288.0	456.83	0.33	428.27	0.00	0.93	94.69	1.10

DEPTH FEET	PERM. INDEX	EFFECTIVE POROSITY %	SHALE VOL. %	GAS INDEX	SW CH %	CUMULATIVE POR-FT	INTEGRATIONS HY-FT
2289.0	262.27	0.29	470.13	0.00	1.00	94.37	1.09
2290.0	3757.62	0.26	2514.35	0.00	1.00	94.09	1.09
2291.0	161.48	0.23	744.94	0.00	1.00	93.84	1.09
2292.0	94.89	0.22	652.42	0.00	1.00	93.61	1.09
2293.0	524.98	0.22	1307.95	0.00	1.00	93.38	1.09
2294.0	1490.56	0.16	3788.96	0.00	1.00	93.17	1.09
2295.0	2245.52	0.20	3145.17	0.00	1.00	93.01	1.09
2296.0	2664.10	0.22	2922.90	0.00	1.00	92.80	1.09
2297.0	1979.47	0.19	3367.56	0.00	1.00	92.60	1.09
2298.0	1572.10	0.17	3623.13	0.00	1.00	92.43	1.09
2299.0	36.01	0.16	720.16	0.00	1.00	92.27	1.09
2300.0	1956.09	0.18	3193.62	0.00	1.00	92.10	1.09
2301.0	1972.32	0.19	3197.80	0.00	1.00	91.91	1.09
2302.0	1470.07	0.16	3787.77	0.00	1.00	91.73	1.09
2303.0	7.02	0.12	746.12	0.00	1.00	91.58	1.09
2304.0	8.44	0.06	2201.35	0.00	1.00	91.47	1.09
2305.0	5.08	0.07	1486.56	0.00	1.00	91.41	1.09
2306.0	7.89	0.08	1576.64	0.00	1.00	91.34	1.09
2307.0	681.37	0.11	5557.47	0.00	1.00	91.26	1.09
2308.0	591.14	0.10	6004.63	0.00	1.00	91.16	1.09
2309.0	341.59	0.08	8102.55	0.00	1.00	91.07	1.09
2310.0	2.42	0.04	2495.90	0.00	1.00	91.00	1.09
2311.0	1.87	0.06	1556.72	0.00	1.00	90.95	1.09
2312.0	12.88	0.11	1204.25	0.00	1.00	90.88	1.09
2313.0	2567.80	0.21	3224.04	0.00	1.00	90.75	1.09
2314.0	452.48	0.32	678.40	0.00	0.99	90.51	1.09
2315.0	359.21	0.34	311.50	0.00	0.90	90.18	1.08
2316.0	177.43	0.28	358.33	0.00	1.00	89.85	1.05
2317.0	134.16	0.27	309.96	0.00	1.00	89.57	1.05
2318.0	131.01	0.28	293.89	0.00	1.00	89.29	1.05
2319.0	52.35	0.22	374.75	0.00	1.00	89.04	1.05
2320.0	39.53	0.20	382.29	0.00	1.00	88.83	1.05
2321.0	73.78	0.24	335.87	0.00	1.00	88.62	1.05
2322.0	165.03	0.30	274.37	0.00	0.97	88.37	1.05
2323.0	336.94	0.34	272.46	0.00	0.79	88.06	1.03
2324.0	86.93	0.25	308.01	0.00	1.00	87.73	0.98
2325.0	37.36	0.20	444.51	0.00	1.00	87.50	0.98
2326.0	129.04	0.25	540.80	0.00	1.00	87.30	0.98
2327.0	319.31	0.31	420.73	0.00	1.00	87.03	0.98
2328.0	464.84	0.34	404.44	0.00	0.95	86.71	0.97
2329.0	6955.77	0.35	1959.55	0.00	0.94	86.37	0.96
2330.0	817.78	0.34	777.58	0.00	0.95	86.01	0.93
2331.0	366.31	0.34	305.23	0.00	0.90	85.67	0.91
2332.0	310.24	0.36	238.75	0.00	0.79	85.32	0.86
2333.0	274.28	0.34	273.83	0.00	0.91	84.97	0.80
2334.0	263.05	0.31	365.08	0.00	1.00	84.65	0.79
2335.0	206.63	0.28	438.63	0.00	1.00	84.35	0.79
2336.0	108.47	0.20	909.43	0.00	1.00	84.09	0.79



DEPTH FEET	PERM. INDEX	EFFECTIVE POROSITY %	SHALE VOL. %	GAS INDEX	SW CH %	CUMULATIVE POR-FT	INTEGRATIONS HY-FT
2337.0	1657.38	0.17	3932.06	0.00	1.00	83.91	0.79
2338.0	1739.26	0.17	3800.44	0.00	1.00	83.75	0.79
2339.0	233.79	0.21	1120.91	0.00	1.00	83.57	0.79
2340.0	80.97	0.22	519.98	0.00	1.00	83.36	0.79
2341.0	51.38	0.20	605.68	0.00	1.00	83.14	0.79
2342.0	57.79	0.21	471.69	0.00	1.00	82.94	0.79
2343.0	263.02	0.21	1178.51	0.00	1.00	82.72	0.79
2344.0	2514.96	0.21	3139.97	0.00	1.00	82.52	0.79
2345.0	240.37	0.23	907.18	0.00	1.00	82.30	0.79
2346.0	2221.36	0.20	3286.45	0.00	1.00	82.07	0.79
2347.0	1320.21	0.15	4398.94	0.00	1.00	81.88	0.79
2348.0	21.29	0.16	718.80	0.00	1.00	81.73	0.79
2349.0	64.65	0.22	502.44	0.00	1.00	81.56	0.79
2350.0	404.40	0.31	616.32	0.00	1.00	81.31	0.79
2351.0	5229.52	0.30	2280.75	0.00	1.00	80.99	0.78
2352.0	386.77	0.31	551.76	0.00	1.00	80.69	0.78
2353.0	489.11	0.35	377.31	0.00	0.88	80.37	0.78
2354.0	415.97	0.34	362.72	0.00	0.91	80.03	0.74
2355.0	264.14	0.29	535.20	0.00	1.00	79.70	0.72
2356.0	95.21	0.23	501.95	0.00	1.00	79.43	0.72
2357.0	269.03	0.31	362.11	0.00	0.99	79.17	0.72
2358.0	313.43	0.30	465.96	0.00	0.99	78.86	0.71
2359.0	3704.07	0.25	2458.84	0.00	1.00	78.57	0.71
2360.0	2458.06	0.21	2916.20	0.00	1.00	78.33	0.71
2361.0	616.09	0.15	2697.10	0.00	1.00	78.14	0.71
2362.0	962.12	0.13	4576.54	0.00	1.00	77.99	0.71
2363.0	48.16	0.12	1446.14	0.00	1.00	77.86	0.71
2364.0	8.91	0.07	1836.34	0.00	1.00	77.75	0.71
2365.0	196.49	0.06	10028.52	0.00	1.00	77.68	0.71
2366.0	175.00	0.06	10711.38	0.00	1.00	77.62	0.71
2367.0	341.73	0.08	7657.27	0.00	1.00	77.56	0.71
2368.0	1150.92	0.14	4150.79	0.00	1.00	77.48	0.71
2369.0	1857.23	0.18	3298.79	0.00	1.00	77.32	0.71
2370.0	14.63	0.09	1576.41	0.00	1.00	77.17	0.71
2371.0	9.75	0.07	1960.48	0.00	1.00	77.09	0.71
2372.0	44.19	0.11	1701.29	0.00	1.00	77.01	0.71
2373.0	10.92	0.12	859.72	0.00	1.00	76.90	0.71
2374.0	4768.53	0.29	2069.73	0.00	0.98	76.73	0.71
2375.0	1465.97	0.23	1846.24	0.00	1.00	76.43	0.69
2376.0	980.87	0.13	4555.66	0.00	1.00	76.24	0.69
2377.0	7.17	0.09	1199.62	0.00	1.00	76.12	0.69
2378.0	2.61	0.06	1497.42	0.00	1.00	76.04	0.69
2379.0	3.99	0.03	3715.01	0.00	1.00	75.98	0.69
2380.0	285.03	0.07	8474.91	0.00	1.00	75.94	0.69
2381.0	580.15	0.10	6075.99	0.00	1.00	75.86	0.69
2382.0	14.27	0.15	614.66	0.00	1.00	75.74	0.69
2383.0	35.00	0.18	574.60	0.00	1.00	75.57	0.69
2384.0	41.84	0.19	531.13	0.00	1.00	75.38	0.69

DEPTH FEET	PERM. INDEX	EFFECTIVE POROSITY %	SHALE VOL. %	GAS INDEX	SW CH %	CUMULATIVE POR-FT	INTEGRATIONS HY-FT
2385.0	40.23	0.20	404.89	0.00	1.00	75.20	0.69
2386.0	104.80	0.25	343.58	0.00	1.00	74.99	0.69
2387.0	16.42	0.16	563.99	0.00	1.00	74.76	0.69
2388.0	36.05	0.19	485.29	0.00	1.00	74.60	0.69
2389.0	111.27	0.25	390.52	0.00	1.00	74.39	0.69
2390.0	108.13	0.24	528.03	0.00	1.00	74.14	0.69
2391.0	4.64	0.11	795.09	0.00	1.00	73.93	0.69
2392.0	0.28	0.04	1572.18	0.00	1.00	73.85	0.69
2393.0	3.70	0.11	734.26	0.00	1.00	73.79	0.69
2394.0	52.87	0.21	422.69	0.00	1.00	73.66	0.69
2395.0	115.64	0.25	436.29	0.00	1.00	73.42	0.69
2396.0	65.96	0.21	575.25	0.00	1.00	73.18	0.69
2397.0	102.99	0.23	509.70	0.00	1.00	72.95	0.69
2398.0	45.43	0.20	406.49	0.00	1.00	72.72	0.69
2399.0	6.59	0.10	996.88	0.00	1.00	72.53	0.69
2400.0	11.72	0.06	2772.09	0.00	1.00	72.46	0.69
2401.0	48.27	0.12	1458.25	0.00	1.00	72.39	0.69
2402.0	23.86	0.16	703.20	0.00	1.00	72.26	0.69
2403.0	33.58	0.18	606.19	0.00	1.00	72.09	0.69
2404.0	27.61	0.16	777.31	0.00	1.00	71.91	0.69
2405.0	36.67	0.19	498.61	0.00	1.00	71.74	0.69
2406.0	37.25	0.19	548.16	0.00	1.00	71.55	0.69
2407.0	59.48	0.19	790.63	0.00	1.00	71.37	0.69
2408.0	117.51	0.24	643.11	0.00	1.00	71.18	0.69
2409.0	255.92	0.24	901.45	0.00	1.00	70.95	0.69
2410.0	134.53	0.24	718.82	0.00	1.00	70.71	0.69
2411.0	100.47	0.24	454.03	0.00	1.00	70.46	0.69
2412.0	117.14	0.26	372.71	0.00	1.00	70.22	0.69
2413.0	139.71	0.27	369.14	0.00	1.00	69.95	0.69
2414.0	98.05	0.24	467.74	0.00	1.00	69.70	0.69
2415.0	93.00	0.23	570.12	0.00	1.00	69.46	0.69
2416.0	61.91	0.21	538.59	0.00	1.00	69.24	0.69
2417.0	112.62	0.24	533.26	0.00	1.00	69.03	0.69
2418.0	50.66	0.16	978.56	0.00	1.00	68.81	0.69
2419.0	23.37	0.14	934.08	0.00	1.00	68.67	0.69
2420.0	2287.60	0.20	3212.32	0.00	1.00	68.51	0.69
2421.0	4373.52	0.28	2325.00	0.00	1.00	68.29	0.69
2422.0	96.86	0.23	540.37	0.00	1.00	68.02	0.69
2423.0	131.86	0.23	677.96	0.00	1.00	67.80	0.69
2424.0	3700.83	0.25	2410.51	0.00	1.00	67.56	0.69
2425.0	2924.83	0.23	2724.44	0.00	1.00	67.32	0.69
2426.0	1356.89	0.15	3972.71	0.00	1.00	67.12	0.69
2427.0	969.43	0.13	4754.09	0.00	1.00	66.97	0.69
2428.0	5.98	0.09	1129.76	0.00	1.00	66.85	0.69
2429.0	13.81	0.08	1793.22	0.00	1.00	66.77	0.69
2430.0	1925.04	0.18	3503.93	0.00	1.00	66.66	0.69
2431.0	97.35	0.23	555.49	0.00	1.00	66.45	0.69
2432.0	36.44	0.17	708.46	0.00	1.00	66.23	0.69



DEPTH FEET	PERM. INDEX	EFFECTIVE POROSITY %	SHALE VOL. %	GAS INDEX	SW CH %	CUMULATIVE POR-FT	INTEGRATIONS HY-FT
2433.0	166.32	0.15	1721.43	0.00	1.00	66.07	0.69
2434.0	370.25	0.17	1844.83	0.00	1.00	65.92	0.69
2435.0	16.10	0.14	767.71	0.00	1.00	65.76	0.69
2436.0	4.73	0.08	1293.07	0.00	1.00	65.64	0.69
2437.0	7.25	0.08	1420.36	0.00	1.00	65.57	0.69
2438.0	2.42	0.07	1454.79	0.00	1.00	65.48	0.69
2439.0	7.00	0.11	920.18	0.00	1.00	65.42	0.69
2440.0	131.91	0.26	418.59	0.00	1.00	65.27	0.69
2441.0	299.21	0.33	293.02	0.00	0.92	64.98	0.68
2442.0	304.38	0.32	331.34	0.00	0.95	64.65	0.65
2443.0	375.58	0.33	346.05	0.00	0.90	64.32	0.63
2444.0	449.56	0.36	270.76	0.00	0.73	63.98	0.57
2445.0	371.49	0.33	331.50	0.00	0.81	63.62	0.47
2446.0	4066.96	0.27	2245.23	0.00	1.00	63.30	0.43
2447.0	3539.24	0.25	2367.14	0.00	1.00	63.03	0.43
2448.0	2264.51	0.20	2995.32	0.00	1.00	62.79	0.43
2449.0	1869.37	0.18	3245.74	0.00	1.00	62.60	0.43
2450.0	2871.16	0.22	2589.31	0.00	1.00	62.41	0.43
2451.0	2123.17	0.19	3048.01	0.00	1.00	62.20	0.43
2452.0	221.04	0.19	1169.04	0.00	1.00	62.01	0.43
2453.0	41.84	0.17	713.49	0.00	1.00	61.83	0.43
2454.0	30.36	0.18	613.89	0.00	1.00	61.65	0.43
2455.0	3.57	0.12	390.77	0.00	1.00	61.49	0.43
2458.0	10.89	0.14	512.29	0.00	1.00	61.27	0.43
2459.0	14.92	0.10	1303.85	0.00	1.00	61.14	0.43
2460.0	303.43	0.19	1313.36	0.00	1.00	61.02	0.43
2461.0	2044.37	0.19	3190.46	0.00	1.00	60.81	0.43
2462.0	34.59	0.11	1399.86	0.00	1.00	60.65	0.43
2463.0	162.39	0.14	1852.42	0.00	1.00	60.54	0.43
2464.0	1200.89	0.14	4050.40	0.00	1.00	60.39	0.43
2465.0	462.25	0.14	2779.93	0.00	1.00	60.26	0.43
2466.0	54.84	0.14	1141.11	0.00	1.00	60.11	0.43
2467.0	36.32	0.13	1201.36	0.00	1.00	59.98	0.43
2468.0	2213.04	0.20	3046.19	0.00	1.00	59.84	0.43
2469.0	1873.18	0.18	3287.03	0.00	1.00	59.64	0.43
2470.0	1401.99	0.17	3157.02	0.00	1.00	59.46	0.43
2471.0	1153.41	0.14	4122.92	0.00	1.00	59.30	0.43
2472.0	48.25	0.13	1278.55	0.00	1.00	59.16	0.43
2473.0	11.94	0.11	989.88	0.00	1.00	59.03	0.43
2474.0	15.88	0.10	1297.20	0.00	1.00	58.93	0.43
2475.0	15.39	0.09	1492.48	0.00	1.00	58.82	0.43
2476.0	3.92	0.06	1934.08	0.00	1.00	58.73	0.43
2477.0	3.34	0.07	1368.75	0.00	1.00	58.67	0.43
2478.0	4.53	0.10	925.42	0.00	1.00	58.60	0.43
2479.0	58.16	0.21	430.61	0.00	1.00	58.48	0.43
2480.0	84.49	0.23	420.58	0.00	1.00	58.26	0.43
2481.0	65.13	0.19	737.84	0.00	1.00	58.04	0.43

DEPTH FEET	PERM. INDEX	EFFECTIVE POROSITY %	SHALE VOL. %	GAS INDEX	SW CH %	CUMULATIVE POR-FT	INTEGRATIONS HY-FT
2482.0	1890.34	0.18	3397.81	0.00	1.00	57.86	0.43
2483.0	17.41	0.16	660.76	0.00	1.00	57.68	0.43
2484.0	7.68	0.13	664.03	0.00	1.00	57.53	0.43
2485.0	17.86	0.16	629.51	0.00	1.00	57.40	0.43
2486.0	85.70	0.23	460.14	0.00	1.00	57.22	0.43
2487.0	54.28	0.22	387.79	0.00	1.00	56.99	0.43
2488.0	138.67	0.29	262.50	0.00	0.99	56.77	0.43
2489.0	138.73	0.30	236.75	0.00	0.94	56.47	0.42
2490.0	90.17	0.26	289.16	0.00	1.00	56.19	0.42
2491.0	108.47	0.26	344.31	0.00	1.00	55.93	0.42
2492.0	81.48	0.24	341.05	0.00	1.00	55.67	0.42
2493.0	49.01	0.21	374.55	0.00	1.00	55.43	0.42
2494.0	90.62	0.26	291.10	0.00	1.00	55.21	0.42
2495.0	184.52	0.30	300.35	0.00	0.98	54.93	0.41
2496.0	69.25	0.22	411.57	0.00	1.00	54.65	0.40
2497.0	86.99	0.23	485.39	0.00	1.00	54.42	0.40
2498.0	85.39	0.24	413.98	0.00	1.00	54.18	0.40
2499.0	164.13	0.30	286.43	0.00	0.99	53.94	0.40
2500.0	226.54	0.34	232.17	0.00	0.82	53.63	0.39
2501.0	198.34	0.32	261.47	0.00	0.94	53.30	0.34
2502.0	244.66	0.30	411.86	0.00	1.00	53.00	0.33
2503.0	209.47	0.29	396.63	0.00	1.00	52.71	0.33
2504.0	111.55	0.27	295.04	0.00	1.00	52.43	0.33
2505.0	105.34	0.27	298.50	0.00	1.00	52.16	0.33
2506.0	129.98	0.28	303.89	0.00	1.00	51.89	0.33
2507.0	133.25	0.28	317.90	0.00	1.00	51.61	0.33
2508.0	274.69	0.32	323.11	0.00	0.97	51.32	0.33
2509.0	167.56	0.30	277.86	0.00	0.98	51.00	0.32
2510.0	90.44	0.27	238.38	0.00	0.99	50.73	0.32
2511.0	97.41	0.27	255.20	0.00	0.99	50.45	0.31
2512.0	11.01	0.14	518.48	0.00	1.00	50.21	0.31
2513.0	36.97	0.19	500.87	0.00	1.00	50.07	0.31
2514.0	84.22	0.21	702.59	0.00	1.00	49.87	0.31
2515.0	32.21	0.17	670.51	0.00	1.00	49.68	0.31
2516.0	2457.74	0.21	3022.06	0.00	1.00	49.50	0.31
2517.0	1556.37	0.16	3875.88	0.00	1.00	49.31	0.31
2518.0	54.66	0.21	447.78	0.00	1.00	49.14	0.31
2519.0	89.58	0.24	378.99	0.00	1.00	48.92	0.31
2520.0	58.64	0.21	479.15	0.00	1.00	48.70	0.31
2521.0	63.48	0.21	542.21	0.00	1.00	48.49	0.31
2522.0	42.69	0.19	511.02	0.00	1.00	48.29	0.31
2523.0	41.66	0.20	458.41	0.00	1.00	48.10	0.31
2524.0	53.36	0.22	376.90	0.00	1.00	47.91	0.31
2525.0	168.42	0.30	275.65	0.00	0.98	47.66	0.31
2526.0	131.33	0.28	302.72	0.00	1.00	47.36	0.31
2527.0	102.83	0.27	283.63	0.00	1.00	47.08	0.31
2528.0	127.60	0.28	279.65	0.00	1.00	46.81	0.31
2529.0	123.83	0.27	326.10	0.00	1.00	46.52	0.31

DEPTH FEET	PERM. INDEX	EFFECTIVE POROSITY %	SHALE VOL. %	GAS INDEX	SW CH %	CUMULATIVE POR-FT	INTEGRATIONS HY-FT
2530.0	48.06	0.21	383.28	0.00	1.00	46.28	0.31
2531.0	81.78	0.23	419.71	0.00	1.00	46.06	0.31
2532.0	78.42	0.22	507.26	0.00	1.00	45.83	0.31
2533.0	64.56	0.22	423.71	0.00	1.00	45.62	0.31
2534.0	170.66	0.28	365.98	0.00	1.00	45.40	0.31
2535.0	212.22	0.28	509.17	0.00	1.00	45.12	0.31
2536.0	190.46	0.28	384.84	0.00	1.00	44.85	0.31
2537.0	171.55	0.28	326.90	0.00	1.00	44.57	0.31
2538.0	232.89	0.28	483.84	0.00	1.00	44.27	0.30
2539.0	144.09	0.25	529.05	0.00	1.00	44.00	0.30
2540.0	121.07	0.26	354.10	0.00	1.00	43.74	0.30
2541.0	81.65	0.23	399.53	0.00	1.00	43.49	0.30
2542.0	15.14	0.15	524.88	0.00	1.00	43.28	0.30
2543.0	30.66	0.18	462.70	0.00	1.00	43.12	0.30
2544.0	162.15	0.27	380.87	0.00	1.00	42.91	0.30
2545.0	222.72	0.28	554.52	0.00	1.00	42.63	0.30
2546.0	205.73	0.27	474.97	0.00	1.00	42.36	0.30
2547.0	176.11	0.27	464.53	0.00	1.00	42.08	0.30
2548.0	53.17	0.20	513.53	0.00	1.00	41.83	0.30
2549.0	108.85	0.24	444.55	0.00	1.00	41.63	0.30
2550.0	243.99	0.29	443.39	0.00	0.98	41.37	0.30
2551.0	61.34	0.19	735.86	0.00	1.00	41.11	0.29
2552.0	15.37	0.09	1725.96	0.00	1.00	40.95	0.29
2553.0	25.82	0.10	1650.47	0.00	1.00	40.87	0.29
2554.0	69.85	0.22	524.69	0.00	1.00	40.74	0.29
2555.0	192.41	0.29	331.10	0.00	0.99	40.50	0.29
2556.0	125.51	0.27	285.03	0.00	0.99	40.20	0.28
2557.0	52.32	0.23	265.02	0.00	1.00	39.93	0.28
2558.0	9.11	0.14	437.65	0.00	1.00	39.72	0.28
2559.0	3.95	0.11	564.09	0.00	1.00	39.59	0.28
2560.0	2.97	0.11	551.59	0.00	1.00	39.48	0.28
2561.0	6.84	0.13	386.45	0.00	1.00	39.37	0.28
2562.0	8.07	0.14	429.28	0.00	1.00	39.23	0.28
2563.0	8.99	0.14	504.76	0.00	1.00	39.10	0.28
2564.0	29.22	0.18	443.13	0.00	1.00	38.95	0.28
2565.0	9.60	0.14	597.72	0.00	1.00	38.77	0.28
2566.0	8.05	0.13	597.18	0.00	1.00	38.65	0.28
2567.0	52.73	0.21	421.70	0.00	1.00	38.51	0.28
2568.0	128.76	0.27	286.78	0.00	0.99	38.29	0.28
2569.0	122.14	0.26	337.35	0.00	1.00	38.02	0.28
2570.0	120.13	0.27	279.12	0.00	0.99	37.76	0.28
2571.0	30.64	0.19	364.68	0.00	1.00	37.51	0.28
2572.0	10.87	0.14	634.40	0.00	1.00	37.33	0.28
2573.0	29.13	0.18	457.89	0.00	1.00	37.18	0.28
2574.0	50.03	0.21	401.01	0.00	1.00	36.99	0.28
2575.0	65.36	0.22	438.91	0.00	1.00	36.78	0.28
2576.0	60.34	0.22	352.68	0.00	1.00	36.57	0.28
2577.0	68.39	0.22	400.71	0.00	1.00	36.35	0.28



DEPTH FEET	PERM. INDEX	EFFECTIVE POROSITY %	SHALE VOL. %	GAS INDEX	SW CH %	CUMULATIVE POR-FT	INTEGRATIONS HY-FT
2578.0	116.64	0.24	459.80	0.00	1.00	36.12	0.28
2579.0	66.49	0.23	367.22	0.00	1.00	35.88	0.28
2580.0	96.38	0.26	299.68	0.00	1.00	35.64	0.28
2581.0	74.22	0.23	348.27	0.00	1.00	35.38	0.28
2582.0	44.53	0.21	379.21	0.00	1.00	35.16	0.28
2583.0	53.76	0.22	329.39	0.00	1.00	34.95	0.28
2584.0	66.12	0.23	348.02	0.00	1.00	34.72	0.28
2585.0	45.10	0.19	566.99	0.00	1.00	34.49	0.28
2586.0	27.73	0.15	777.63	0.00	1.00	34.31	0.28
2587.0	12.88	0.15	603.34	0.00	1.00	34.16	0.28
2588.0	27.51	0.18	465.19	0.00	1.00	34.01	0.28
2589.0	30.59	0.18	516.50	0.00	1.00	33.83	0.28
2590.0	37.69	0.19	517.84	0.00	1.00	33.64	0.28
2591.0	31.54	0.18	520.42	0.00	1.00	33.45	0.28
2592.0	44.63	0.20	376.39	0.00	1.00	33.26	0.28
2593.0	103.56	0.25	364.40	0.00	1.00	33.04	0.28
2594.0	36.18	0.19	505.67	0.00	1.00	32.81	0.28
2595.0	37.46	0.20	383.11	0.00	1.00	32.63	0.28
2596.0	28.28	0.19	366.28	0.00	1.00	32.44	0.28
2597.0	33.08	0.19	433.97	0.00	1.00	32.26	0.28
2598.0	40.76	0.16	835.62	0.00	1.00	32.07	0.28
2599.0	8.24	0.11	824.48	0.00	1.00	31.93	0.28
2600.0	30.58	0.18	464.75	0.00	1.00	31.80	0.28
2601.0	41.55	0.20	440.69	0.00	1.00	31.61	0.28
2602.0	37.11	0.20	391.39	0.00	1.00	31.41	0.28
2603.0	50.68	0.22	330.91	0.00	1.00	31.21	0.28
2604.0	41.02	0.21	343.01	0.00	1.00	30.99	0.28
2605.0	24.98	0.19	339.89	0.00	1.00	30.79	0.28
2606.0	17.07	0.17	365.96	0.00	1.00	30.61	0.28
2607.0	12.41	0.15	408.04	0.00	1.00	30.44	0.28
2608.0	15.47	0.17	348.07	0.00	1.00	30.28	0.28
2609.0	3.72	0.11	451.51	0.00	1.00	30.13	0.28
2610.0	8.86	0.16	235.50	0.00	1.00	30.01	0.28
2611.0	3.54	0.13	155.33	0.00	1.00	29.86	0.28
2623.0	1.91	0.10	263.15	0.00	1.00	29.26	0.28
2624.0	6.53	0.13	412.04	0.00	1.00	29.15	0.28
2625.0	26.61	0.17	493.89	0.00	1.00	29.00	0.28
2626.0	29.16	0.17	640.81	0.00	1.00	28.81	0.28
2627.0	8.12	0.07	1637.71	0.00	1.00	28.67	0.28
2628.0	22.26	0.11	1170.26	0.00	1.00	28.59	0.28
2629.0	35.64	0.19	371.29	0.00	1.00	28.46	0.28
2630.0	24.11	0.19	300.07	0.00	1.00	28.26	0.28
2631.0	17.29	0.17	313.30	0.00	1.00	28.08	0.28
2632.0	19.33	0.17	348.70	0.00	1.00	27.90	0.28
2633.0	35.85	0.19	369.90	0.00	1.00	27.72	0.28
2634.0	24.81	0.17	440.01	0.00	1.00	27.53	0.28
2635.0	28.69	0.18	478.35	0.00	1.00	27.36	0.28

DEPTH FEET	PERM. INDEX	EFFECTIVE POROSITY %	SHALE VOL. %	GAS INDEX	SW CH %	CUMULATIVE POR-FT	INTEGRATIONS HY-FT
2636.0	31.23	0.18	576.95	0.00	1.00	27.17	0.28
2637.0	23.85	0.17	490.29	0.00	1.00	27.00	0.28
2638.0	17.04	0.16	522.05	0.00	1.00	26.83	0.28
2639.0	27.52	0.16	688.08	0.00	1.00	26.67	0.28
2640.0	11.52	0.12	776.34	0.00	1.00	26.52	0.28
2641.0	8.21	0.11	885.69	0.00	1.00	26.41	0.28
2642.0	14.37	0.14	699.14	0.00	1.00	26.29	0.28
2643.0	693.94	0.12	4444.60	0.00	1.00	26.16	0.28
2644.0	531.95	0.10	5973.95	0.00	1.00	26.05	0.28
2645.0	22.67	0.10	1532.81	0.00	1.00	25.96	0.28
2646.0	2.71	0.07	1168.25	0.00	1.00	25.87	0.28
2647.0	0.86	0.05	1464.34	0.00	1.00	25.81	0.28
2648.0	4.35	0.11	648.81	0.00	1.00	25.75	0.28
2649.0	21.40	0.17	418.09	0.00	1.00	25.62	0.28
2650.0	22.02	0.17	450.19	0.00	1.00	25.45	0.28
2651.0	14.09	0.15	498.10	0.00	1.00	25.28	0.28
2652.0	4.19	0.12	561.60	0.00	1.00	25.14	0.28
2653.0	10.49	0.14	521.54	0.00	1.00	25.01	0.28
2654.0	25.85	0.17	463.41	0.00	1.00	24.85	0.28
2655.0	31.13	0.18	537.12	0.00	1.00	24.67	0.28
2656.0	75.17	0.22	516.34	0.00	1.00	24.48	0.28
2657.0	81.11	0.22	534.52	0.00	1.00	24.25	0.28
2658.0	45.43	0.16	786.97	0.00	1.00	24.03	0.28
2659.0	9.51	0.08	1505.67	0.00	1.00	23.89	0.28
2660.0	678.88	0.11	5197.00	0.00	1.00	23.81	0.28
2661.0	1010.47	0.13	4251.79	0.00	1.00	23.69	0.28
2662.0	1904.39	0.18	3170.90	0.00	1.00	23.55	0.28
2663.0	2447.67	0.21	2813.47	0.00	1.00	23.35	0.28
2664.0	1596.62	0.17	3437.01	0.00	1.00	23.17	0.28
2665.0	2565.67	0.21	2716.07	0.00	1.00	22.99	0.28
2666.0	1972.11	0.19	3078.20	0.00	1.00	22.79	0.28
2667.0	237.85	0.13	2187.30	0.00	1.00	22.61	0.28
2668.0	8.52	0.10	992.00	0.00	1.00	22.49	0.28
2669.0	17.51	0.15	646.51	0.00	1.00	22.38	0.28
2670.0	10.09	0.13	688.69	0.00	1.00	22.23	0.28
2671.0	14.68	0.13	815.24	0.00	1.00	22.11	0.28
2672.0	18.38	0.13	817.64	0.00	1.00	21.98	0.28
2673.0	6.94	0.13	577.14	0.00	1.00	21.85	0.28
2674.0	13.87	0.15	438.32	0.00	1.00	21.72	0.28
2675.0	22.87	0.18	323.87	0.00	1.00	21.56	0.28
2676.0	23.63	0.18	381.09	0.00	1.00	21.38	0.28
2677.0	32.36	0.19	388.50	0.00	1.00	21.19	0.28
2678.0	6.61	0.13	434.00	0.00	1.00	21.02	0.28
2679.0	4.52	0.12	518.52	0.00	1.00	20.89	0.28
2680.0	7.27	0.13	482.29	0.00	1.00	20.77	0.28
2681.0	8.89	0.14	458.90	0.00	1.00	20.64	0.28
2682.0	19.01	0.16	441.75	0.00	1.00	20.50	0.28
2683.0	12.14	0.15	421.47	0.00	1.00	20.33	0.28

DEPTH FEET	PERM. INDEX	EFFECTIVE POROSITY %	SHALE VOL. %	GAS INDEX	SW CH %	CUMULATIVE POR-FT	INTEGRATIONS HY-FT
2684.0	15.05	0.16	403.94	0.00	1.00	20.18	0.28
2685.0	8.51	0.14	460.63	0.00	1.00	20.02	0.28
2686.0	8.81	0.14	437.96	0.00	1.00	19.89	0.28
2687.0	14.81	0.16	442.59	0.00	1.00	19.75	0.28
2688.0	13.79	0.15	566.22	0.00	1.00	19.59	0.28
2689.0	26.32	0.17	547.60	0.00	1.00	19.45	0.28
2690.0	14.91	0.15	498.25	0.00	1.00	19.27	0.28
2691.0	17.33	0.16	488.60	0.00	1.00	19.14	0.28
2692.0	55.61	0.21	460.00	0.00	1.00	18.96	0.28
2693.0	9.16	0.13	672.71	0.00	1.00	18.78	0.28
2694.0	9.62	0.14	606.51	0.00	1.00	18.65	0.28
2695.0	8.10	0.13	677.68	0.00	1.00	18.52	0.28
2696.0	2.74	0.08	1003.01	0.00	1.00	18.40	0.28
2697.0	3.71	0.11	588.36	0.00	1.00	18.32	0.28
2698.0	5.20	0.12	507.88	0.00	1.00	18.20	0.28
2699.0	2.11	0.10	614.34	0.00	1.00	18.09	0.28
2700.0	3.66	0.11	571.47	0.00	1.00	17.99	0.28
2701.0	4.18	0.12	532.68	0.00	1.00	17.88	0.28
2702.0	10.65	0.14	632.52	0.00	1.00	17.76	0.28
2703.0	20.46	0.16	512.29	0.00	1.00	17.62	0.28
2704.0	7.19	0.13	530.14	0.00	1.00	17.47	0.28
2705.0	6.18	0.13	556.43	0.00	1.00	17.35	0.28
2706.0	11.61	0.14	592.03	0.00	1.00	17.22	0.28
2707.0	5.26	0.11	751.18	0.00	1.00	17.08	0.28
2708.0	4.55	0.11	644.87	0.00	1.00	16.97	0.28
2709.0	4.07	0.11	559.29	0.00	1.00	16.86	0.28
2710.0	5.14	0.12	552.79	0.00	1.00	16.74	0.28
2711.0	2.70	0.09	794.29	0.00	1.00	16.63	0.28
2712.0	2.22	0.08	1025.20	0.00	1.00	16.55	0.28
2713.0	2.91	0.09	831.05	0.00	1.00	16.47	0.28
2714.0	2.49	0.10	666.53	0.00	1.00	16.38	0.28
2715.0	2.67	0.08	906.13	0.00	1.00	16.28	0.28
2716.0	6.68	0.10	876.52	0.00	1.00	16.19	0.28
2717.0	2.93	0.09	830.02	0.00	1.00	16.10	0.28
2718.0	3.71	0.11	642.99	0.00	1.00	16.00	0.28
2719.0	2.21	0.08	798.70	0.00	1.00	15.90	0.28
2720.0	2.97	0.09	770.83	0.00	1.00	15.81	0.28
2721.0	5.52	0.09	861.83	0.00	1.00	15.72	0.28
2722.0	4.78	0.10	775.30	0.00	1.00	15.63	0.28
2723.0	3.31	0.10	725.46	0.00	1.00	15.53	0.28
2724.0	3.67	0.10	722.76	0.00	1.00	15.43	0.28
2725.0	4.23	0.10	702.63	0.00	1.00	15.33	0.28
2726.0	4.67	0.10	752.41	0.00	1.00	15.23	0.28
2727.0	3.95	0.09	890.21	0.00	1.00	15.13	0.28
2728.0	12.43	0.15	536.73	0.00	1.00	15.03	0.28
2729.0	15.16	0.15	473.45	0.00	1.00	14.87	0.28
2730.0	8.38	0.13	550.14	0.00	1.00	14.73	0.28
2731.0	11.21	0.14	526.21	0.00	1.00	14.61	0.28



DEPTH FEET	PERM. INDEX	EFFECTIVE POROSITY %	SHALE VOL. %	GAS INDEX	SW CH %	CUMULATIVE POR-FT	INTEGRATIONS HY-FT
2732.0	9.25	0.14	563.15	0.00	1.00	14.47	0.28
2733.0	14.78	0.15	495.80	0.00	1.00	14.33	0.28
2734.0	10.90	0.14	506.77	0.00	1.00	14.17	0.28
2735.0	5.80	0.12	660.94	0.00	1.00	14.03	0.28
2736.0	6.19	0.13	523.78	0.00	1.00	13.91	0.28
2737.0*****		0.36	64.17	0.00	0.60	13.67	0.21
2738.0*****		0.36	65.24	0.00	0.61	13.31	0.07
2739.0	2.51	0.10	688.75	0.00	1.00	13.09	0.00
2740.0	3.17	0.11	609.20	0.00	1.00	12.99	0.00
2741.0	2.82	0.10	627.43	0.00	1.00	12.89	0.00
2742.0	4.13	0.11	579.51	0.00	1.00	12.78	0.00
2743.0	2.49	0.09	768.12	0.00	1.00	12.67	0.00
2744.0	2.20	0.08	852.81	0.00	1.00	12.59	0.00
2745.0	1.58	0.07	976.27	0.00	1.00	12.51	0.00
2746.0	1.38	0.07	977.78	0.00	1.00	12.44	0.00
2747.0	1.90	0.08	845.09	0.00	1.00	12.37	0.00
2748.0	4.14	0.11	584.64	0.00	1.00	12.29	0.00
2749.0	5.57	0.12	541.86	0.00	1.00	12.16	0.00
2750.0	2.54	0.10	662.02	0.00	1.00	12.05	0.00
2751.0	3.26	0.11	607.47	0.00	1.00	11.95	0.00
2752.0	3.44	0.11	599.68	0.00	1.00	11.84	0.00
2753.0	4.50	0.12	561.87	0.00	1.00	11.72	0.00
2754.0	4.91	0.12	551.41	0.00	1.00	11.61	0.00
2755.0	7.57	0.13	494.58	0.00	1.00	11.49	0.00
2756.0	10.73	0.14	452.72	0.00	1.00	11.35	0.00
2757.0	7.98	0.13	484.75	0.00	1.00	11.21	0.00
2758.0	8.29	0.14	477.06	0.00	1.00	11.08	0.00
2759.0	9.76	0.14	458.04	0.00	1.00	10.94	0.00
2760.0	8.03	0.14	481.17	0.00	1.00	10.80	0.00
2761.0	6.76	0.13	499.76	0.00	1.00	10.67	0.00
2762.0	8.12	0.14	472.90	0.00	1.00	10.54	0.00
2763.0	9.47	0.14	451.72	0.00	1.00	10.40	0.00
2764.0	5.72	0.12	517.27	0.00	1.00	10.26	0.00
2765.0	6.95	0.13	490.87	0.00	1.00	10.13	0.00
2766.0	7.69	0.14	475.36	0.00	1.00	9.99	0.00
2767.0	8.27	0.14	465.84	0.00	1.00	9.86	0.00
2768.0	12.16	0.15	417.46	0.00	1.00	9.71	0.00
2769.0	12.25	0.15	413.63	0.00	1.00	9.56	0.00
2770.0	9.00	0.14	451.10	0.00	1.00	9.41	0.00
2771.0	9.64	0.14	444.80	0.00	1.00	9.27	0.00
2772.0	13.49	0.16	407.94	0.00	1.00	9.12	0.00
2773.0	12.55	0.15	415.91	0.00	1.00	8.96	0.00
2774.0	13.46	0.16	407.05	0.00	1.00	8.81	0.00
2775.0	15.29	0.16	393.38	0.00	1.00	8.65	0.00
2776.0	15.37	0.16	394.89	0.00	1.00	8.49	0.00
2777.0	14.05	0.16	404.32	0.00	1.00	8.33	0.00
2778.0	15.84	0.16	389.02	0.00	1.00	8.17	0.00
2779.0	21.46	0.18	357.22	0.00	1.00	8.00	0.00

DEPTH FEET	PERM. INDEX	EFFECTIVE POROSITY %	SHALE VOL. %	GAS INDEX	SW CH %	CUMULATIVE POR-FT	INTEGRATIONS HY-FT
2780.0	19.47	0.17	368.30	0.00	1.00	7.82	0.00
2781.0	32.56	0.20	313.55	0.00	1.00	7.65	0.00
2782.0	28.82	0.19	324.27	0.00	1.00	7.44	0.00
2783.0	15.51	0.16	393.11	0.00	1.00	7.26	0.00
2784.0	18.90	0.17	372.48	0.00	1.00	7.10	0.00
2785.0	27.04	0.19	334.61	0.00	1.00	6.92	0.00
2786.0	20.27	0.18	363.41	0.00	1.00	6.73	0.00
2787.0	11.48	0.15	427.90	0.00	1.00	6.56	0.00
2788.0	8.50	0.14	467.94	0.00	1.00	6.42	0.00
2789.0	9.26	0.14	460.31	0.00	1.00	6.28	0.00
2790.0	6.28	0.13	513.16	0.00	1.00	6.14	0.00
2791.0	6.41	0.13	511.21	0.00	1.00	6.01	0.00
2792.0	5.40	0.12	531.92	0.00	1.00	5.88	0.00
2793.0	7.73	0.13	488.03	0.00	1.00	5.76	0.00
2794.0	12.18	0.15	437.27	0.00	1.00	5.62	0.00
2795.0	11.48	0.15	446.00	0.00	1.00	5.47	0.00
2796.0	12.17	0.15	435.99	0.00	1.00	5.32	0.00
2797.0	13.25	0.15	422.94	0.00	1.00	5.17	0.00
2798.0	9.10	0.14	467.46	0.00	1.00	5.02	0.00
2799.0	10.88	0.15	450.06	0.00	1.00	4.88	0.00
2800.0	9.98	0.14	161.26	0.00	1.00	4.74	0.00
2801.0	11.30	0.15	157.89	0.00	1.00	4.59	0.00
2802.0	13.25	0.15	152.39	0.00	1.00	4.45	0.00
2803.0	15.93	0.16	145.56	0.00	1.00	4.29	0.00
2804.0	13.40	0.15	153.37	0.00	1.00	4.13	0.00
2805.0	13.19	0.15	155.89	0.00	1.00	3.98	0.00
2806.0	11.53	0.15	162.57	0.00	1.00	3.82	0.00
2807.0	14.77	0.16	151.53	0.00	1.00	3.67	0.00
2808.0	19.74	0.17	139.39	0.00	1.00	3.51	0.00
2809.0	19.20	0.17	139.81	0.00	1.00	3.34	0.00
2810.0	15.82	0.16	145.69	0.00	1.00	3.17	0.00
2811.0	16.80	0.16	142.90	0.00	1.00	3.01	0.00
2812.0	19.50	0.17	138.01	0.00	1.00	2.84	0.00
2813.0	10.46	0.14	163.40	0.00	1.00	2.67	0.00
2814.0	5.49	0.12	189.01	0.00	1.00	2.54	0.00
2815.0	5.12	0.12	191.37	0.00	1.00	2.41	0.00
2816.0	6.56	0.13	178.47	0.00	1.00	2.29	0.00
2817.0	7.90	0.13	170.70	0.00	1.00	2.16	0.00
2818.0	9.62	0.14	162.83	0.00	1.00	2.02	0.00
2819.0	11.10	0.15	157.57	0.00	1.00	1.88	0.00
2820.0	15.77	0.16	144.35	0.00	1.00	1.74	0.00
2821.0	19.38	0.17	137.15	0.00	1.00	1.57	0.00
2822.0	18.21	0.17	140.61	0.00	1.00	1.41	0.00
2823.0	18.50	0.17	142.01	0.00	1.00	1.24	0.00
2824.0	23.14	0.18	134.72	0.00	1.00	1.07	0.00
2825.0	36.53	0.20	116.72	0.00	1.00	0.88	0.00
2826.0	25.62	0.18	125.46	0.00	1.00	0.68	0.00
2827.0	6.80	0.13	166.72	0.00	1.00	0.52	0.00



DEPTH	PERM. INDEX	EFFECTIVE POROSITY %	SHALE VOL. %	GAS INDEX	SW CH %	CUMULATIVE POR-FT	INTEGRATIONS HY-FT
2828.0	2.62	0.10	197.96	0.00	1.00	0.40	0.00
2829.0	0.55	0.08	271.00	0.00	1.00	0.30	0.00
2830.0	2.12	0.10	210.40	0.00	1.00	0.22	0.00
2831.0	0.44	0.07	282.73	0.00	1.00	0.13	0.00
2832.0	0.17	0.06	323.47	0.00	1.00	0.07	0.00
2833.0	0.00	0.04	537.87	0.00	1.00	0.02	0.00

CONFIDENTIAL

DIVISION OF OIL, GAS, AND MINING

P L U G G I N G   P R O G R A M

NAME OF COMPANY: AMOCO PRODUCTION COMPANY

WELL NAME: West Rozel St. Unit #1

Sec. 23 T. 8N R. 8W, County Box Elder

Verbal approval given to plug the above referred to well in the following manner:

Total Depth: 8,500'

Casing Program:

Formation Tops:

20" at 362' cemented to surface  
95/8" at 2,819' cemented to surface

NOT KNOWN

A cast iron bridge plug was set at 400' and cemented to surface.

Plugs Set as Follows:

The well was already plugged back to 2,430'.

Date: MARCH 5, 1979 Signed: \_\_\_\_\_

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN DUPLICATE\*  
(Other instructions on  
reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Wildcat (Plug X Abandon)		5. LEASE DESIGNATION AND SERIAL NO. ML-28640	
2. NAME OF OPERATOR Amoco Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P. O. Box 17675, Salt Lake City, Utah 84117		7. UNIT AGREEMENT NAME West Rozel State Unit	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface C-NW/4 SW/4 Section 23,660' FWL 1980' FEL		8. FARM OR LEASE NAME	
14. PERMIT NO. 43-003-30003		9. WELL NO. # 1	
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 4199' Lake Elevation (4223' RKB)		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 23-T8N-R8W	
		12. COUNTY OR PARISH Box Elder	13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

### NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	Plug X Abandon <input type="checkbox"/>

### SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

## 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Well drilled to a total depth of 8500' DATE: 3-8-79  
No commercial hydrocarbons encountered  
9 5/8" 36# Surface casing set @ 2819' BY: M. J. M.

Propose to Plug X Abandon as follows:  
Set 250 Sx. CL "G" W/0.75% CFR-2 Cement plug on top of retainer to be set @ approximately 2000'

Set 50 Sx CL "G" w/0.75% CFR-2 Cement Plug 1132'-1000'  
Set 140 Sx CL "G" w/0.75% CFR-2 Cement Plug on top of CIBP to be set @ 400'

Verbal approval obtained from Leon B. Feight of the State of Utah, Department of Natural Resources, Division of Oil, Gas and Mining to J. E. Stepinski on 3/2/79 4:30 p.m.

## 18. I hereby certify that the foregoing is true and correct

SIGNED J. E. Stepinski

TITLE District Adm. Supervisor DATE 3/5/1979

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_ DATE \_\_\_\_\_

STATE OF UTAH

OIL &amp; GAS CONSERVATION COMMISSION

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

TIGHT HOLE

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> Other <input type="checkbox"/>				5. LEASE DESIGNATION AND SERIAL NO. ML-28640	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other <input type="checkbox"/>				6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Amoco Production Company				7. UNIT AGREEMENT NAME West Rozel State Unit	
3. ADDRESS OF OPERATOR P. O. Box 17675, Salt Lake City, UT 84117				8. FARM OR LEASE NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface C-NW/4 SW/4 Section 23, 660' FWL 1980' FEL At top prod. interval reported below SAME At total depth SAME				9. WELL NO. 1	
14. PERMIT NO. 43-003-30003				13. STATE Utah	
DATE ISSUED				12. COUNTY OR PARISH Box Elder	
15. DATE SPUDDED 11-23-78		16. DATE T.D. REACHED 2-2-79		10. FIELD AND POOL, OR WILDCAT Wildcat	
17. DATE COMPL. (Ready to prod.) N/A 3-2-79		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 4199 Lake 4223 RKB		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 23-T8N-R8W	
20. TOTAL DEPTH, MD & TVD 8500'		21. PLUG, BACK T.D., MD & TVD Surface		19. ELEV. CASINGHEAD N/A	
22. IF MULTIPLE COMPL., HOW MANY* N/A		23. INTERVALS DRILLED BY To TD		25. WAS DIRECTIONAL SURVEY MADE Yes	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* N/A Well is plugged and abandoned					27. WAS WELL CORRED Yes
26. TYPE ELECTRIC AND OTHER LOGS RUN HDT, CYBERLOOK Velocity Survey, Dual Laterolog, DIL-SFL-GR, BHC-GR-TTI, CNL-FDC-GR					
28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	133#	362' KB	Driven		35'
9 5/8"	36# K-55	2819'	12 1/4"	1400Sx lite x 800Sx CL "G"	140'
29. LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	
N/A					
30. TUBING RECORD					
SIZE	DEPTH SET (MD)	PACKER SET (MD)			
N/A					
31. PERFORATION RECORD (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
2486'-2532'	4 JSPF	.5"	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	
2280'-2410'	4 JSPF	.5"		SEE ATTACHMENT	
2280'-2282'	4 JSPF	.5"			
33.* PRODUCTION					
DATE FIRST PRODUCTION N/A		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) P x A			WELL STATUS (Producing or shut-in) P x A
DATE OF TEST N/A	HOURS TESTED N/A	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.
N/A					
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) N/A Well is plugged and Abandoned					TEST WITNESSED BY
35. LIST OF ATTACHMENTS					
32. Acid, Shot, Fracture Cement Squeeze			37. Summary of Porous Zones.		
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED <i>Davidson</i>		TITLE Dist. Adm. Supervisor		DATE 4/3/79	

\*(See Instructions and Spaces for Additional Data on Reverse Side)

## ATTACHMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

West Rozel State Unit #1

32. ACID, SHOT FRACTURE, CEMENT SQUEEZE, ETC.

<u>DEPTH INTERVAL (MD)</u>	<u>AMOUNT AND KIND OF MATERIAL USED</u>
5635-6205'	Set 500 Sx CI "G" plug (top of fish 6219')
2486-2532'	25 MCF N <sub>2</sub> Pad, 2000 gal 15% HCL and 1000 SCF/BBL N <sub>2</sub>
2486-2532'	Set retainer @ 2375 and squeeze perms w/100 Sx CI "G"
2280-2410'	Acidize w/40 MCF N <sub>2</sub> Pad, 4000 gal 15% HCL w/20 gal HAI-75, 8 gal 5-NEA w/1000 SCF/BBL N <sub>2</sub>

37. SUMMARY OF POROUS ZONES:

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>DESCRIPTION, CONTENTS, ETC.</u>	<u>NAME</u>	<u>GEOLOGIC MARKERS</u>	
					<u>MEAS. DEPTH</u>	<u>TRUE VERT. DEPTH</u>
	2157'	2162'	Core #1: Cut 5; Rec 4'	Salt	2136'	
	2128'	2220'	DST #1: IO-Good 3" water blow to 1" after 15 min, FO-Tools plugged misrun	Miocene	3426'	
	2131'	2352'	DST #2: IO-Strong blow to 6# decrease to 1# at end, FO-Strong blow to very wk.	Paleozoic	6240'	
	2115'	2430'	DST #3: IO-Blow to bottom of bucket @ max. 10#, Died in 1 hr. to 0 (No initial open or shut-in) Final SI 2 hrs. Rec 1208' gas cut mud. (top recorder plugged)			
	2819'	2995'	DST #4: IO-10 min Blow to 50 #PSI, FO-Weak Blow			

Lost bit @ 6936' w/drlg jars, 20 drill collars, 2 jts drill pipe and 27' stub in hole  
 Top of fish 6219' Set 500 Sx CI "G" cement plug est. top 5365' and prep to side track  
 around junk. Kick-off point @ 6141 and continue drilling

7998' 8005' Core #3: Cut 7' Rec 7' Dolomite

Plugging record as follows:

Set 300 Sx CI "G" A Cement plug 5820' - 6200'

Set 300 Sx CI "G" A cement plug 3975' - 4500'

Set 360 Sx CL "G" A cement plug 3285' - 2655'

Dress hole to 2702' and set BP @ 2697'. Set cement retainer @ 1810' and pump 250 Sx CI "G" Cement plug on top. Set bridge Plug @ 400' and set 400 Sx CI "G" Cement plug to surface.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT TRIPLICATE\*  
(Other instructions on reverse side)

TIGHT HOLE

## SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals.)

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2. NAME OF OPERATOR Amoco Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 17675 Salt Lake City, UT 84117		7. UNIT AGREEMENT NAME West Rozel State Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface		8. FARM OR LEASE NAME
C-NW/4 SW/4 Section 23, 660' FWL 1980' FEL		9. WELL NO. 1
14. PERMIT NO. 43-003-30003		10. FIELD AND POOL, OR WILDCAT Wildcat
15. ELEVATIONS (Show whether DF, ST, or other) 4199' Lake Elev. 4222' RKB		11. T, S., R., M., OR B.L. AND RANGE OR AREA Sec. 23, T8N-R8W
		12. COUNTY OR PARISH Box Elder
		13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

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SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input checked="" type="checkbox"/>
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(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

Well drilled to a total depth of 8500'  
Commercial quantities of hydrocarbons not encountered

9 5/8" Surface casing set @ 2819'

Plugging record as follows:

Set cement retainer @ 1810' and pump 250 Sx CI "G" cement plug on top  
Set Bridge Plug @ 400'. Cut and pull 140' 9 5/8" Surface Casing and 35'  
20" conductor pipe. Set 400 Sx CI "G" Cement plug on top of Bridge Plug to surface.

Log tops as follows:

Salt 2136  
Miocene 3426  
Paleozoic 6240

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Dist. Adm. Supervisor

DATE 4/3/79

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_